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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/890,097		10/29/2001	Hiroyuki Tokunaga	0020-4885P	5983	
2292	7590	03/29/2004		EXAMINER		
	WART	KOLASCH &	NOGUEROLA, ALEXANDER STEPHAN			
PO BOX 747 FALLS CHUI	RCH. V	A 22040-0747		ART UNIT	PAPER NUMBER	
1.1225 61101	,			1753		

DATE MAILED: 03/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	A It - At - No	A lia A/a)	TV
	Application No.	Applicant(s)	
	09/890,097	TOKUNAGA ET AL.	
Office Action Summary	Examiner	Art Unit	
	ALEX NOGUEROLA	1753	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE	PLY IS SET TO EXPIRE 3 MC	NTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	t 1.136(a). In no event, however, may a repreply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT atute, cause the application to become ABA	(30) days will be considered timely. HS from the mailing date of this communi NDONED (35 U.S.C. § 133).	cation.
Status			
1) Responsive to communication(s) filed on 20) February 2004.		
·	his action is non-final.		
3) Since this application is in condition for allow	wance except for formal matte	rs, prosecution as to the meri	its is
closed in accordance with the practice unde			
Disposition of Claims			
4) Claim(s) 1,2 and 5-9 is/are pending in the a	pplication.		
4a) Of the above claim(s) is/are without	drawn from consideration.		
5)⊠ Claim(s) <u>1,2 and 5-8</u> is/are allowed.			
6)⊠ Claim(s) <u>9</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exam	iner.		
10)⊠ The drawing(s) filed on <u>29 October 2001</u> is/a	are: a)⊠ accepted or b)⊡ ob	jected to by the Examiner.	
Applicant may not request that any objection to t	the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the core	rection is required if the drawing(s) is objected to. See 37 CFR 1.1	21(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-15	2.
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority document 		119(a)-(d) or (f).	
Certified copies of the priority docume 2. Certified copies of the priority documents of the priority documents.		nlication No	
3. Copies of the certified copies of the p			<u>a</u>
application from the International Bur		coolved in this realistial stage	-
* See the attached detailed Office action for a l		eceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		mmary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		/Mail Date ormal Patent Application (PTO-152)	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 7/27/2001.	6) Other:		

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Response to Amendment

1. Applicant's amendment of February 13, 2004 does not render the application allowable. Applicant has added new claim 9, which parallels original claim 2 in its essentials. For the reasons stated below, claim 9 is obvious over Yuichiro et al.

Status of the Rejections Applied in the Office action of September 16, 2003

2. All previous rejections are withdrawn.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over the JPO machine translation of Yuichiro et al. (JP 11-230934), hereafter "Yuichiro et al." Note that although Inoue Yoichi is listed as a co-inventor in the declaration of the instant application and on the first page of Yuichiro et al., Noda Yuichiro is not listed as a co-inventor in the declaration of the instant application, but is listed as a co-inventor on the first page of the Yuichiro et al. reference. Thus, the Yuichiro et al. reference is by another (MPEP 715.01(a)).

Yuichiro et al. teaches a method of discriminating a sample for a sensor system which quantitates the concentration of a target substance contained in the sample by measuring electric current (abstract), the method comprising

using a ratio of a measured current value to a time-differential value of the current value as a discriminating parameter (paragraph [0013] of the *Detailed Description*);

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defining a discrimination function for discriminating kinds of a plurality of samples, the

discrimination function using the discriminating parameter as an independent variable (paragraph

[0013] of the Detailed Description);

using a numeric value obtained by substituting the value of the discriminating parameter

into the discrimination function, as a discriminating index (paragraphs [0013]-[0016] of the

Detailed Description); and

discriminating the kind of any sample based on the discriminating index (paragraphs

[0013]-[0016] of the Detailed Description), in which the discrimination function can be defined

by means of an expression using a plurality of discriminating paramaters (paragraph [0014] of

the Detailed Description and [Means for Solving the Problem] of Means).

Although Yuichiro et al discloses using a plurality of discriminating parameters ("n-piece

calculations" using different discriminating ratios), using three or more discriminating

paramaters is not explicitly stated. It would have been obvious to one with ordinary skill in the

art at the time the invention was made to use a plurality of discriminating paramaters, especially

three or more, because the more discriminating paramaters used the more accurate the

discrimination of a sample as one kind or another; that is, the more precisely the boundary

surface that defines a particular sample region in multi-dimensional space can be defined.

Allowable Subject Matter

7. Claims 1, 2, and 5-8 are allowed.

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Final Rejection

8. Applicant's amendment necessitated the new ground of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX NOGUEROLA whose telephone number is (571) 272-1343. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NAM NGUYEN can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Alex Noguerola
3/24/04
Primary Examiner
TC1753